

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An exhaust system in a radiation gas range, the exhaust system comprising:
 - a housing having exhaust openings in a rear part ~~that~~ for discharge of exhaust gas;
 - a ~~sheet of glass cover~~ on top of the housing ~~for transmission of~~ that transmits radiant heat to a ~~heating an~~ object placed thereon;
 - front and rear burner housings in contact with a bottom surface of ~~the sheet of glass for forming cover that form~~ spaces to burn mixed gas therein;
 - front radiation gas burners in ~~lower parts of the~~ front burner housings, respectively, each ~~for burning mixed gas at a surface of a radiation body to generate a radiation~~ energy;
 - rear radiation gas burners in ~~lower parts of the~~ front burner housings, respectively, each ~~for burning mixed gas at a surface of a radiation body to generate a radiation~~ energy; and
 - an exhaust duct ~~in lower parts of, and~~ in communication with the front and/or rear burner housings ~~for discharging~~ that discharges exhaust gas from the front and rear radiation burners toward the exhaust openings, wherein the exhaust duct includes:

a first exhaust duct in communication with the front burner housings; and
a second exhaust duct formed inside of, and separate from, the first
exhaust duct in communication with the rear burner housings.

2. (Currently Amended) The exhaust system as claimed in claim 1, wherein two sets of each of the front[[,]] and rear burner housings, and the front[[,]] and rear radiation gas burners are provided, and wherein the exhaust duct is arranged at a central part of the housing to pass between the front radiation gas burners and between the rear radiation gas burners.

3. (Currently Amended) The exhaust system as claimed in claim 2, further comprising a partition wall at a central part of each of the exhaust duct ducts, ~~to divide that divides each of the first and second exhaust duct into two parts, one of which is in communication with the front burner housing and the rear burner housing on a left side, and the other one of which is in communication with the front burner housing and the rear burner housing on a right side.~~

4.-5. (Canceled)

6. (Currently Amended) The exhaust system as claimed in claim 5¹, wherein the second exhaust duct has a sectional area smaller than 1/2 of a sectional area of the first exhaust duct.

7. (Canceled)

8. (Currently Amended) An exhaust system in a radiation gas range, the exhaust system comprising:

a housing having exhaust openings in a rear part ~~for that~~ discharge of exhaust gas;

a sheet of glass on top of the housing ~~for transmission of that~~ transmits radiant heat to ~~a heating an~~ object placed thereon;

two front burner housings[[,]] and two rear burner housings in contact with a bottom surface of the sheet of glass ~~for forming that form~~ spaces to burn mixed gas therein;

two front radiation gas burners[[,]] and two rear radiation gas burners in lower parts of the front[[,]] and rear burner housings, respectively, each ~~for burning~~ mixed gas at a surface of a radiation body to generate a radiation energy;

a first exhaust duct in lower parts of, and ~~to pass that~~ passes through spaces between the front burner housings[[,]] and between the rear burner housings in communication with the front burner housings, ~~for discharging that~~ discharges exhaust gas from the front

radiation burners toward the exhaust openings; and

a second exhaust duct ~~[[,]]~~ formed inside of, and separate from, the first exhaust duct in communication with the rear burner housings.

9. (Currently Amended) The exhaust system as claimed in claim 8, further comprising a partition wall at a central part of the first exhaust duct, ~~to divide~~ that divides the first exhaust duct into two parts, one of which ~~is in communication~~ communicates with the front burner housing on a left side, and the other one of which ~~is in communication~~ communicates with the front burner housing on a right side.

10. (Currently Amended) The exhaust system as claimed in claim 8, further comprising a partition wall at a central part of the second exhaust duct, ~~to divide~~ that divides the second exhaust duct into two parts, one of which ~~is in communication~~ communicates with the rear burner housing on a left side, and the other one of which ~~is in communication~~ communicates with the rear burner housing on a right side.

11. (Original) The exhaust system as claimed in claim 8, wherein the second exhaust duct has a sectional area smaller than 1/2 of a sectional area of the first exhaust duct.

12. (Currently Amended) An exhaust system in a radiation gas range, the exhaust system comprising:

a housing having exhaust openings in a rear part ~~for that discharge of exhaust gas;~~

a ~~sheet of glass cover~~ on top of the housing ~~for transmission of that transmits~~ radiant heat to a ~~heating an~~ object placed thereon;

two front[[,]] and rear burner housings in contact with a bottom surface of the sheet of glass ~~for forming cover that form~~ spaces to burn mixed gas therein;

two front radiation gas burners[[,]] and two rear radiation gas burners in ~~lower parts of the front[[,]] and rear burner housings, respectively, each for burning mixed gas at a~~ surface of a radiation body to generate a radiation energy;

a central exhaust duct ~~between lower parts of, and in communication with the front burner housings~~ housing, for guiding that guides exhaust gas from the front radiation gas burners to the exhaust openings, wherein the central exhaust duct is formed by the front burner housing;

~~a partition wall at a central part of the central exhaust duct for dividing the central exhaust duct into two parts, one of which is in communication with the front burner housing on a left side, and the other one of which is in communication with the front burner housing on a right side; and~~

two rear exhaust ducts in communication with ~~rear parts of the rear burner~~

housings, ~~respectively individually, for discharging that discharge~~ exhaust gas from the front radiation gas burners and the rear radiation gas burners toward the exhaust openings.

13. (Currently Amended) An exhaust system in a radiation gas range, the exhaust system comprising:

a housing having exhaust openings in a rear part ~~for that~~ discharge of exhaust gas;

a ~~sheet of glass cover~~ on top of the housing ~~for transmission of that~~ transmits radiant heat to ~~a heating an~~ object placed thereon;

a front and rear burner housings housing in contact with a bottom surface of the ~~sheet of glass for forming cover that form~~ spaces to burn mixed gas therein;

front radiation gas burners ~~in lower parts of the front and rear burner housings housing, respectively each for burning mixed gas at a surface of a radiation body to generate a~~ radiation energy;

rear radiation gas burners ~~in lower parts of the front and rear burner housings housing, respectively each for burning mixed gas at a surface of a radiation body to generate a~~ radiation energy; and

an exhaust duct ~~formed to adjoin to a bottom of the sheet of glass, in communication with one side part of each of the front and/or rear burner housings for discharging that discharges~~ exhaust gas from the front[[,]] and rear radiation burners toward the

exhaust openings, wherein the exhaust duct is formed by the front and rear burner housing.

14. (Currently Amended) The exhaust system as claimed in claim 13, wherein ~~two sets of each of the front[[,]] and rear burner housings, and the front, and rear radiation gas burners are provided, and the exhaust duct is arranged at a central part of the housing to pass between the front radiation gas burners and between the rear radiation gas burners.~~

15. (Currently Amended) The exhaust system as claimed in claim 14, further comprising a partition wall at a central part of the exhaust duct, ~~to divide~~ that divides the exhaust duct into two parts, one of which ~~is in communication~~ communicates with the front burner ~~housing~~ and the rear burner ~~housing~~ on a left side, and the other one of which ~~is in communication~~ communicates with the front burner ~~housing~~ and the rear burner ~~housing~~ on a right side.

16. (Currently Amended) The exhaust system as claimed in claim ~~14~~ 12, wherein the exhaust duct ~~includes~~ comprises two separate exhaust ducts ~~of including~~ a left exhaust duct in communication with the front burner ~~housing~~ and the rear burner ~~housing~~ on a left side[[,]] and a right exhaust duct in communication with the front burner ~~housing~~ and the rear burner ~~housing~~ on a right side.

17.-19. (Canceled)

20. (New) A radiation gas range comprising the exhaust system of claim 1.

21. (New) A radiation gas range comprising the exhaust system of claim 8.

22. (New) A radiation gas range comprising the exhaust system of claim 12.

23. (New) The exhaust system of claim 12, wherein the cover comprises a sheet of glass.

24. (New) The exhaust system of claim 12, wherein the two front radiation burners and two rear radiation burners are provided in lower parts of the front and rear burner housings, respectively.

25. (New) The exhaust system of claim 12, wherein a partition wall at a central part of the central exhaust duct divides the central exhaust duct into two parts, one of which communicates with the front burner housing on a left side, and the other one of which communicates with the front burner housing on a right side.

26. (New) The exhaust system of claim 12, wherein the two rear exhaust ducts communicate with rear parts of the rear burner housing, respectively.

27. (New) A radiation gas range comprising the exhaust system of claim 13.

28. (New) The exhaust system of claim 12, wherein the cover comprises a sheet of glass.

29. (New) The exhaust system of claim 13, wherein the two front radiation burners and two rear radiation burners are provided in lower parts of the front and rear burner housings, respectively.